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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	Not yet assigned
Filing Date	Herewith
First Named Inventor	Stanley M. Crain
Art Unit	Not yet assigned
Examiner Name	Not yet assigned
Attorney Docket Number	96700/879

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US- 5,512,578	04-30-1996	Crain et al.	
	2	US- 6,194,382 B1	02-27-2001	Crain et al.	
	3	US- 6,395,705 B2	05-28-2002	Crain et al.	
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 1

Complete if Known	
Application Number	10/114,909
Filing Date	April 3, 2002
First Named Inventor	Stanley M Crain
Art Unit	1614
Examiner Name	Raymond J. Henley III
Attorney Docket Number	96700/748

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number: Number - Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US- 5,580,876	12-03-1996	Crain et al.	
	2	US- 5,585,348	12-17-1996	Crain et al.	
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Examiner Initials*	Cite No.[1]	Foreign Patent Document: Country Code[3] - Number[4] - Kind Code[5] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
	3	EP 0 352 361 A1	01-31-1990	The Rockefeller University		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

Complete if Known	
Application Number	09/261,361
Filing Date	March 3, 1999
First Named Inventor	Stanley M. Crain
Group Art Unit	1614
Examiner Name	Ray Henley
Attorney Docket Number	96700/453

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	1	CHAMI, et al., Treatment of Constipation-Predominant Irritable Bowel Syndrome (IBS-C) with the Opioid Antagonist Nalmefene Glucuronide (NG), The American Journal of Gastroenterology 1993, 88(9), 1568.	
	2	FARTHING, New Drugs in the Management of the Irritable Bowel Syndrome, Drugs 1998:56(1), 11-21.	
	3	DAPOIGNY, et al., Efficacy of Peripheral Kappa Agonist Fedotozine versus Placebo in Treatment of Irritable Bowel Syndrome, Digestive Diseases and Sciences 1995, 40(10) 2244-2248.	
	4	DROSSMAN, et al., Irritable Bowel Syndrome: A Technical Review for Practice Guideline Development, Gastroenterology 1997, 112:2120-2137.	
	5	DALTON, et al., Diagnosis and Treatment of Irritable Bowel Syndrome, American Family Physician 1997, 55(3):875-880.	
	6	CAMILLERI, et al., Review Article: Irritable Bowel Syndrome, Aliment. Pharmacol. Ther. 1997, 11:3-15.	
	7	PACE, et al., Therapy of Irritable Bowel Syndrome - An Overview, Digestion 1995, 56:433-442.	
	8	DELVAUX, et al., Trimebutine: Mechanism of Action, Effects on Gastrointestinal Function and Clinical Results, The Journal of International Medical Research 1997, 25:225-246.	
	9	DAPOIGNY, et al., Neurophysiology and Neuropsychiatry of the IBS, Digestion 1997, 58:1-9.	
	10	JUNIEN, et al., Review Article: The Hypersensitive Gut - Peripheral Kappa Agonists as a New Pharcacological Approach, Ailment. Pharmacol. Ther. 1995, 9:117-126.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 3

Complete if Known	
Application Number	09/261,361
Filing Date	March 3, 1999
First Named Inventor	Stanley M. Crain
Group Art Unit	1614
Examiner Name	Ray Henley
Attorney Docket Number	96700/453

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	12	DROSSMAN, et al., Psychosocial Factors in the Irritable Bowel Syndrome, Gastroenterology 1988, 95:701-8.	
	13	DROSSMAN, et al., U.S. Householder Survey of Functional Gastrointestinal Disorders, Digestive Diseases and Sciences, 1993, 38(9):1569-1580.	
	14	TALLEY, et al., Medical Costs in Community Subjects with Irritable Bowel Syndrome, Gastroenterology 1995, 109:1736-1741.	
	15	KONIECZKO, et al., Antagonism of Morphine-Induced Respiratory Depression with Nalmefene, Br. J. Anaesth. 1988, 61:318-323.	
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	20	HORAN, et al., Antinociceptive Profile of Biphalin, a Dimeric enkephalin Analog, The J.I of Phar. and Exper. Ther. 265(3):1446-1454.	
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	22	GAN, et al., Opioid-sparing Effects of a Low-dose Infusion of Naloxone in Patient-administered Morphine Sulfact, Anesthesiology 1997, 87:1075-81.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 3

Complete if Known	
Application Number	09/261,361
Filing Date	March 3, 1999
First Named Inventor	Stanley M. Crain
Group Art Unit	1614
Examiner Name	Ray Henley
Attorney Docket Number	96700/453

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

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	23	CRAIN, et al., Modulation of Opioid Analgesia, Tolerance and Dependence by Gs -coupled, GM1 Ganglioside-regulated Opioid receptor Functions, TIPS 1998, 19:358-365.	
	24	CRAIN, et al., GM1 Ganglioside-induced Modulation of Opioid Receptor-mediated Functions, Annals of the New York Academy of Sciences 1998:106-125.	
	25	APFEL, et al., Kappa Opioid Receptors Participate in Nerve Growth Factor-Induced Hyperalgesia, Neuroscience 1995, 68(4):1199-1206.	
	26	SHEN, et al., Nerve Growth Factor Rapidly Prolongs the Action Potential of Mature Sensory Ganglion Neurons in Culture, and This Effect Requires Activation of Gs-coupled Excitatory k-Opioid Receptors on These Cells, The Journal of Neuroscience 1994, 14(9):5570-5579.	
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	32	CRAIN, et al., Ultra-low Concentrations of Naloxone Selectively Antagonize Excitatory Effects of Morphine on Sensory Neurons, Thereby Increasing its Antinociceptive Potency and Attenuating Tolerance/Dependence During Chronic Cotreatment, Proc. Natl. Acad. Sci. (USA) 1995, 99:10540-10544.	
	33	SHEN, et al., Dual Opioid Modulation of the Action Potential Duration of Mouse Dorsal Root Ganglion Neurons in Culture, Brain Research 1989, 491:227-242.	

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